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Application No.	Applicant(s)	
10/763,627	CROWLEY, DANIEL T.	
Examiner	Art Unit	
Rodney G. McDonald	1753	·
The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
3. The drawings filed on 23 January 2004 are accepted by the Examiner.		
<ul> <li>4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
<ul> <li>6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.</li> <li>(a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached</li> <li>1) hereto or 2) to Paper No./Mail Date</li> <li>(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of</li> </ul>		
•	•	
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
6. ☐ Interview Summary ( Paper No./Mail Date ), 7. ☐ Examiner's Amendm	(PTO-413), enent/Comment	
	Rodney G. McDonald  ars on the cover sheet with the cacor of REMAINS) CLOSED in this apport other appropriate communication is subject to and MPEP 1308.  Examiner.  der 35 U.S.C. § 119(a)-(d) or (f).  been received.  been received in Application Nouments have been received in this is application.  f this communication to file a reply in this application.  ded. Note the attached EXAMINER's reason(s) why the oath or declarate be submitted.  n's Patent Drawing Review (PTO-4)  Amendment / Comment or in the Omega and the application of the drawing header according to 37 CFR 1.121(c) that is application of the drawing header according to 37 CFR 1.121(c) that is application of the drawing header according to 37 CFR 1.121(c) that is application of the drawing header according to 37 CFR 1.121(c) that is application of the drawing header according to 37 CFR 1.121(c) that is application of the drawing header according to 37 CFR 1.121(c) that is application of the drawing header according to 37 CFR 1.121(c) that is application of the drawing header according to 37 CFR 1.121(c) that is application of the drawing header according to 37 CFR 1.121(c) that is application of the drawing header according to 37 CFR 1.121(c) that is application of the drawing header according to 37 CFR 1.121(c) that is application of the drawing header according to 37 CFR 1.121(c) that is application of the drawing header according to 37 CFR 1.121(c) that is application of the drawing header according to 37 CFR 1.121(c) that is application of the drawing header according to 37 CFR 1.121(c) that is application of the drawing header according to 37 CFR 1.121(c) that is application of the drawing header according to 37 CFR 1.121(c) that is application of the drawing header according to 37 CFR 1.121(c) that is application of the drawing header according to 37 CFR 1.121(c) that is application of the drawing header according to 37 CFR 1.121(c) that is application of the drawing header according to 37 CFR 1.121(c) that is application of the drawing he	Examiner  Rodney G. McDonald  1753  ars on the cover sheet with the correspondence address-OR REMAINS) CLOSED in this application. If not included or other appropriate communication will be mailed in due course. THENTS. This application is subject to withdrawal from issue at the init and MPEP 1308.  Examiner.  der 35 U.S.C. § 119(a)-(d) or (f).  been received.  been received in Application No  Juments have been received in this national stage application from the fithis communication to file a reply complying with the requirements extend this application.  ted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF a reason(s) why the oath or declaration is deficient.  be submitted.  n's Patent Drawing Review (PTO-948) attached  Amendment / Comment or in the Office action of  4(c) should be written on the drawings in the front (not the back) of the header according to 37 CFR 1.121(d).  t of BIOLOGICAL MATERIAL must be submitted. Note the OR THE DEPOSIT OF BIOLOGICAL MATERIAL.  5 Notice of Informal Patent Application (PTO-152)  6 Interview Summary (PTO-413),

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## **REASONS FOR ALLOWANCE**

The following is an examiner's statement of reasons for allowance:

Claims 1-8 and 10-16 are allowable over the prior art of record because the prior art of record does not teach the claimed subject matter including an electromagnetic field shield disposed between the conducting member and an outer surface of the rotary cathode.

Claims 9 and 17 are allowable over the prior art of record because the prior art of record does not teach the claimed subject matter including a drive shaft portion made of a ferrous material for absorbing the electromagnetic field to reduce heat damage to parts adjacent to the coolant conduit that are susceptible to inductive magnetic heating.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rodney G. McDonald whose telephone number is 571-272-1340. The examiner can normally be reached on M- Th with Every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam X. Nguyen can be reached on 571-272-1342. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Rochey J. McDonald Rodney G. McDonald Primary Examiner Art Unit 1753

RM September 7, 2004